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Page 10 of 10

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Universal Approximation Theorem & Nash Embedding Theorems

critique criticus κριτικός critical judgement

[illegible][illegible]

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[illegible]

Turing test AlphaGo dataset

[illegible]

AlphaGo Zero is superhuman
AlphaGo AlphaZero MuZero

SAE level 4

ready ALphabet/Waymo SAE level 4 SAE level 4 ALphabet/Waymo

Reward Is Enough reward reward reward Reward

SAE level 4

Nash Embedding Theorems Word-embedding Vector Space

deep learning reinforcement learning

reward

Universal Approximation Theorem selfish gene

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1) 2) 3) 4) 1) 2)

[illegible]

Leukotomy □ selfish gene □ Technological Singularity □ AlphaGo Zero □ superhuman performance □ potentially a meta-solution to any problem □ Reward Is Enough □ liberal arts □

[illegible][illegible]

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ A ☐ B ☐ C ☐ D ☐ ☐ ☐ ☐ ☐

A. □□□□□□□□

1. □□□

2. □□□□□□□□□□

3. Chaitin's constant

4.

5. □□□□ 1 - 4 □□□□□□□□□□□□□□□□□□□□

B. □□□□□□□□□□□□□□

6. relevance theory

7.

8. Grigori Perelman □ Poincaré conjecture □□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□

9. Demis Hassabis □ AlphaGo □□□□□□□□ intuition□□□□□□□□□□ intuition □□□ Demis Hassabis □□□ AlphaGo □□□□□□□□□□ intuition □□□□□□□□□□ AlphaGo □□□□□□□□□□□□□□ a meta-solution to any problem□

C. □□□□□□□□□□□□□□

12. motif

14. □□□□□□ The Selfish Gene □□ The Immortal Gene □□□□□□□□□□□□□□□□□□□□

16. Austrian School of Economics

D. □□□□□□□□□□□□□□□□:

19.

21. Turing Machine deterministic, probabilistic, etc.

23. word-embedding vector space, encoder-decoder, attention, transformer, BERT

24. 讲讲 deep-learning 讲讲 deep residual networks 讲讲 generative adversarial networks, etc. 讲讲

25. 讲讲 Universal Approximation Theorem 讲讲 overfitting/underfitting 讲讲 chaos phenomena 讲讲

26. 讲讲 reward 讲讲 Reward Is Enough 讲讲

27. 讲讲 selfish gene 讲讲

28. 讲讲

Freeman Dyson 讲讲

“”

AlphaGo Nature SAE level 5 SAE level 4

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The Selfish Gene

Freeman Dyson a
great bird frog bird frog frog
frog frog bird

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□ □

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Deepmind 奖励是否足够

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